

UNION ELECTRIC COMPANY GAS SERVICE

Applying to MISSOURI SERVICE AREA

WEATHER NORMALIZATION ADJUSTMENT RIDER (WNAR)

APPLICABILITY

The Weather Normalization Adjustment Rider (WNAR) is applicable to all Ccf of gas delivered to all customers served under Company's Residential service classification. The Rider will be applied as a separate line item on the customer's bill.

FILING

The Company shall make a WNAR filing each calendar year to be effective for the November billing month at least sixty (60) days prior to the effective date. The final over/under balance of the DCA Rider accumulated through February 2022 will transfer to the WNAR for inclusion in the November 1, 2022 filing. The remaining Reconciliation Adjustment from the Residential DCA as of October 31, 2022, will transfer to the Residential WNAR.

WEATHER NORMALIZATION ADJUSTMENT RATE

$$WA = \frac{TWA + OA}{\text{Expected recovery period Residential sales}}$$

Where:

- WA = Weather adjustment amount to be collected from the Residential service class
- TWA = Total Weather Adjustment equaling the sum of the effective AWNA and AR from the Weather Adjustment Calculation
- OA = Ordered Adjustment is the amount of any adjustment to the WNA ordered by the Commission as a result of corrections under this Rider. Such amounts shall include monthly interest at the Company's monthly short-term borrowing rate.

WEATHER ADJUSTMENT CALCULATION

$$TWA = AWNA + AR$$

Where:

Annual WNA ("AWNA") = the sum of the Monthly WNA for the billing months in the twelve month period ended each July. The initial AWNA will be calculated with less than twelve months of information, including the Monthly WNA for March through July 2022, but will include the balance transferred from the DCA Rider for the remaining months of the annual period.

Annual Reconciliation ("AR") = Prior to the end of the twelve months of billing of each AWNA, the over- or under-billing of the AWNA shall be calculated based on twelve months of actual sales, consisting of the last three months of the recovery period related to the prior AWNA and the first nine months of the recovery period related to the currently effective AWNA.

DATE OF ISSUE January 28, 2022 DATE EFFECTIVE February 28, 2022

ISSUED BY Mark C. Birk Chairman & President St. Louis, Missouri
Name of Officer Title Address

UNION ELECTRIC COMPANY GAS SERVICE

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MISSOURI SERVICE AREA

WEATHER NORMALIZATION ADJUSTMENT RIDER (WNAR)

The WNA Factor will be calculated for each billing month as follows:

$$WNA_i = \sum_{j=1}^{21} \left((NDD_{ij} - ADD_{ij}) * \beta \right) * C_{ij}$$

Where:

WNA_i = Weather Normalization Adjustment

i = the applicable billing month

j = billing cycle

β = applicable coefficient of 0.10918 as established in Case No. GR-2021-0241.

C_{ij} = the total number of customer charges charged in billing cycle j and billing month i .

NDD_{ij} = the total normal heating degree days for the days in the applicable billing month and billing cycle. The normal degree days are calculated as the weighted average of 87.0% of heating degree days observed at the Columbia, MO Airport weather station and 13.0% of the heating degree days observed at the Cape Girardeau, MO Airport weather station.

ADD_{ij} = the total actual heating degree days for the days in the applicable billing month and billing cycle. A weighted average will be calculated based on 87.0% of heating degree days observed at the Columbia, MO Airport weather station and 13.0% of the heating degree days observed at the Cape Girardeau, MO Airport weather station.

$$\text{Monthly } WNA_i = WNA_i * \text{Weighted Volumetric Rate ("WVR")}$$

Where:

WVR = the Residential Distribution Delivery Rate of \$0.3536 per Ccf as established in Case No. GR-2021-0241.

There shall be a limit of \$0.05 per Ccf on upward adjustments for the WA, and no limit on downward adjustments. Any WA adjustment amounts in excess of \$0.05 per Ccf will be deferred for recovery from customers in the next WA adjustment.

Each month, monthly interest at the Company's monthly short-term borrowing rate shall be applied to the Company's average beginning and ending monthly WNA balances. Corresponding interest income and expense amounts shall be recorded on a net cumulative basis for the WNA deferral period.

DATE OF ISSUE January 28, 2022DATE EFFECTIVE February 28, 2022ISSUED BY Mark C. Birk
Name of OfficerChairman & President
TitleSt. Louis, Missouri
Address

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WEATHER NORMALIZATION ADJUSTMENT RIDER (WNAR)

(Applicable to services provided on November 1, 2022 through October 31, 2023)

Calculation of Current Weather Adjustment Rate (WR):

Monthly WNA included in WNA Factor:	March 2022 through July 2022	
Sum of Monthly WNA (AWNA)		\$1,776,766.00
Annual Reconciliation (AR)	+	\$0.00
Total Weather Adjustment (TWA)	=	\$1,776,766.00
Ordered Adjustment (OA)	±	\$0.00
Weather Adjustment (TWA +OA)	=	\$1,776,766.00
Expected Retail Sales in the Recovery Period	÷	73,509,689 Ccf
Weather Adjustment Rate for Residential Customers (WR)	=	\$0.0242/Ccf

DATE OF ISSUE September 2, 2022 DATE EFFECTIVE November 1, 2022

ISSUED BY Mark C. Birk Chairman & President St. Louis, Missouri
Name of Officer Title Address